

1        1.        A method of providing enhanced performance in an interactive television  
2        system, comprising:

3                scanning an interactive content bearing program for a universal resource  
4        locator (URL);

5                upon finding a URL in the interactive content bearing program, mirroring  
6        content associated with the URL to a cache memory;

7                presenting the interactive content bearing program to a plurality of  
8        subscribers;

9                receiving a request from a subscriber for the URL;

10               retrieving the mirrored content associated with the URL from the cache  
11        memory; and

12               delivering the mirrored content associated with the URL to the subscriber.

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14        2.        The method according to claim 1, further comprising purging the cache  
15        memory in accordance with a purging algorithm.

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17        3.        The method according to claim 2, wherein the purging algorithm purges the  
18        cache in accordance with an amount of time the mirrored content has been in the  
19        cache.

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21        4.        The method according to claim 2, wherein the purging algorithm purges the  
22        cache in accordance with a least frequent use algorithm.

1        5.        The method according to claim 2, wherein the purging algorithm purges the  
2        cache in accordance with an order that the mirrored content was placed in the  
3        cache.

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5        6.        The method according to claim 1, wherein the cache memory is situated at  
6        a service provider head end.

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8        7.        The method according to claim 1, wherein the cache memory is situated at  
9        a subscriber's set-top box.

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11       8.       The method according to claim 1, further comprising determining that the  
12       URL requested by the subscriber is not in the cache memory, and downloading the  
13       interactive content associated with the URL from the Internet.

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15       9.       The method according to claim 1, further comprising:  
16       examining the content associated with the URL for a secondary URL; and  
17       mirroring content associated with the secondary URL to the cache memory.

1 10. An apparatus for providing enhanced performance in an interactive television  
2 system, comprising:

3 a cache memory;

4 program means running on a programmed processor for:

5 scanning an interactive content bearing program for a universal  
6 resource locator (URL);

7 upon finding a URL in the interactive content bearing program,  
8 mirroring content associated with the URL to the cache memory;

9 a media server for presenting the interactive content bearing program to a  
10 plurality of subscribers;

11 means for receiving a request from a subscriber for the URL;

12 means for retrieving the mirrored content associated with the URL from the  
13 cache memory; and

14 means for delivering the mirrored content associated with the URL to the  
15 subscriber.

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17 11. The apparatus according to claim 10, wherein the program means further  
18 comprises means for purging the cache memory in accordance with a purging  
19 algorithm.  
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12. The apparatus according to claim 11, wherein the purging algorithm purges the cache in accordance with an amount of time the mirrored content has been in the cache.

13. The apparatus according to claim 11, wherein the purging algorithm purges the cache in accordance with an order that the mirrored content was placed in the cache.

14. The apparatus according to claim 10, wherein the cache memory is situated at a service provider head end.

15. The apparatus according to claim 10, wherein the cache memory is situated at a subscriber's set-top box.

16. The apparatus according to claim 10, further comprising:  
means for examining the content associated with the URL for a secondary URL; and  
means for mirroring content associated with the secondary URL to the cache memory.

1 17. A method of providing enhanced performance in an interactive television  
2 system, comprising:

3 scanning an interactive content bearing program for a universal resource  
4 locator (URL);

5 upon finding a URL in the interactive content bearing program, mirroring  
6 content associated with the URL to a cache memory situated at a service provider  
7 head end;

8 presenting the interactive content bearing program to a plurality of  
9 subscribers;

10 receiving a request from a subscriber for the URL;

11 retrieving the mirrored content associated with the URL from the cache  
12 memory;

13 delivering the mirrored content associated with the URL to the subscriber;

14 purging the cache memory in accordance with a purging algorithm, wherein  
15 the purging algorithm purges the cache in accordance with an amount of time the  
16 mirrored content has been in the cache memory.

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18 18. The method according to claim 17, wherein the mirroring further comprises  
19 mirroring the content associated with the URL to a local cache memory situated at  
20 a subscriber's set-top box, and wherein the retrieving comprises retrieving the  
21 content associated with the URL to one of the cache memory and the local cache  
22 memory.

1 19. The method according to claim 17, further comprising determining that the  
2 URL requested by the subscriber is not in the cache memory and the local cache  
3 memory, and downloading the interactive content associated with the URL from the  
4 Internet.

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6 20. The method according to claim 17, further comprising:  
7 examining the content associated with the URL for a secondary URL; and  
8 mirroring content associated with the secondary URL to the cache memory.

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1        21.    A method of providing enhanced performance in an interactive television  
2        system, comprising:

3                scanning an interactive content bearing program for a universal resource  
4        locator (URL);

5                upon finding a URL in the interactive content bearing program, mirroring  
6        content associated with the URL to a cache memory situated at a service provider  
7        head end and a local cache memory situated at a subscriber's set-top box;

8                presenting the interactive content bearing program to a plurality of  
9        subscribers;

10               receiving a request from a subscriber for the URL;

11               retrieving the mirrored content associated with the URL from one of the  
12        cache memory and the local cache memory;

13               delivering the mirrored content associated with the URL to the subscriber;

14               purging the cache memory in accordance with a purging algorithm, wherein  
15        the purging algorithm purges the cache in accordance with an amount of time the  
16        mirrored content has been in the cache.

17  
18        22.    The method according to claim 21, further comprising determining that the  
19        URL requested by the subscriber is not in the cache memory and the local cache  
20        memory, and downloading the interactive content associated with the URL from the  
21        Internet.

1        23.    The method according to claim 21, further comprising:  
2            examining the content associated with the URL for a secondary URL; and  
3            mirroring content associated with the secibdary URL to the cache memory.  
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1 24. A storage medium storing instructions which, when executed on a  
2 programmed processor, carry out a method of providing enhanced performance in  
3 an interactive television system, comprising:

4 scanning an interactive content bearing program for a universal resource  
5 locator (URL);

6 upon finding a URL in the interactive content bearing program, mirroring  
7 content associated with the URL to a cache memory;

8 presenting the interactive content bearing program to a plurality of  
9 subscribers;

10 receiving a request from a subscriber for the URL;

11 retrieving the mirrored content associated with the URL from the cache  
12 memory; and

13 delivering the mirrored content associated with the URL to the subscriber.

14  
15 25. The storage medium according to claim 24, further comprising purging the  
16 cache memory in accordance with a purging algorithm.

17  
18 26. The storage medium according to claim 24, further comprising determining  
19 that the URL requested by the subscriber is not in the cache memory, and  
20 downloading the interactive content associated with the URL from the Internet.

1 27. The storage medium according to claim 24, further comprising:  
2 examining the content associated with the URL for a secondary URL; and  
3 mirroring content associated with the secondary URL to the cache memory.  
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